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JUL 9 1964

MEMORANDUM FOR: [redacted]

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SUBJECT : Amendment to System Four Capabilities

REFERENCE : [redacted] dated 13 June - Subject: System Four
Capabilities

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1. It has been determined that the superheterodyne receiver planned for the 10 to 40 kmc/s region can not be made available for a period of a year or eighteen months. This has caused the System Four design to revert to a crystal-video receiver of some 40 db. less sensitivity than the superheterodyne would have had. This reduces the intercept range by a factor of 100. Accordingly, the twenty-mile range stated in above referenced paper no longer applies for this frequency range.

2. The crystal-video system will have a range of one-half to twenty-five miles (depending on the signal strength involved) for signals directed at it and one-fifth to five miles (depending on signal strength involved) for other signals. It is believed that this receiver system is worth carrying since the total 10-40 kmc/s package will weigh only about fifteen pounds.

3. Please correct the paper referenced above.

Distribution:

Copies 1 & 2 - [redacted]
3 & 4 - [redacted]

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5 - Project Chrome
6 - Daily Reading

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AMENDED